

REPORT ON MACHINERY.

Port of *Grimsey*

Received at London Office *SAT. 8 JUL 1905*

Survey held at *Grimsey*

Date, first Survey *24th March*. Last Survey *29th June 1905*

Book *SK. R. K. CLITUS*

(Number of Visits)

Surveyed by *H. Bigger*

Built at *Selly*

By whom built *Cochrane & Sons L^o*

Tons ^{Gross} *240*
_{Net} *98*
When built *1905*

Engines made at *Grimsey*

By whom made *Central Coop. Eng. Ship Rep^o Co^o*

When made *1905*

Boilers made at *West Hartlepool*

By whom made *Central Marine Eng^o Works*

When made *1905*

Registered Horse Power

Owners *Orient Steam Fishing Co^o* Port belonging to *Grimsey*

Horse Power as per Section 28 *71 1/2*

Is Refrigerating Machinery fitted *no*

Is Electric Light fitted *no*

ENGINES, &c.—Description of Engines

Inv. Eng. Ship Exp. Surf. Cond.

No. of Cylinders *3*

No. of Cranks *3*

Diameter of Cylinders *12 1/4, 22, 35* Length of Stroke *24* Revs. per minute *110* Dia. of Screw shaft *7 1/8* Lgth. of stern bush *2-8*

Dia. of Tunnel shaft *7* Dia. of Crank shaft journals *7 1/4* Dia. of Crank pin *7* Size of Crank webs *13 x 4 1/2* Dia. of thrust shaft under

Dia. of screw *8-6* Pitch of screw *10-6* No. of blades *4* State whether moceable *no* Total surface *25 1/2*

Feed pumps *1* Diameter of ditto *2 1/4* Stroke *12* Can one be overhauled while the other is at work *-*

Bilge pumps *1* Diameter of ditto *3* Stroke *12* Can one be overhauled while the other is at work *-*

Donkey Engines *1* Sizes of Pumps *3 1/2 dia x 6 stroke* No. and size of Suctions connected to both Bilge and Donkey pumps

Engine Room *Sea, bilge, Hotwell 2 bore* In Holds, &c. *Fore hold and fore peak*

Bilge injections *1* sizes *2 1/4* Connected to condenser, or to circulating pump *no* Is a separate donkey suction fitted in Engine room & size *2 bore*

Are the bilge suction pipes fitted with roses *yes* Are the roses in Engine room always accessible *yes* Are the sluices on Engine room bulkheads always accessible *no*

Are all connections with the sea direct on the skin of the ship *yes* Are they Valves or Cocks *Both*

Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates *yes* Are the discharge pipes above or below the deep water line *above*

Are they each fitted with a discharge valve always accessible on the plating of the vessel *yes* Are the blow off cocks fitted with a spigot and brass covering plate *yes*

Are the pipes carried through the bunkers *Fore hold & fore peak* How are they protected *Strong wood casing*

Are all pipes, cocks, valves, and pumps in connection with the machinery and all boiler mountings accessible at all times *yes*

Are the bilge suction pipes, cocks, and valves arranged so as to prevent any communication between the sea and the bilges *yes*

Were the stern tube, propeller, screw shaft, and all connections examined in dry dock *no* Is the screw shaft tunnel watertight *no*

Is the tunnel fitted with a watertight door *yes* worked from *yes*

BOILERS, &c.—

(Letter for record)

Total Heating Surface of Boilers

Is forced draft fitted

General Description of Boilers

Working Pressure

Tested by hydraulic pressure to

Can each boiler be worked separately

Area of fire grate in each boiler

No. and Description of safety valves to

Area of each valve

Pressure to which they are adjusted

Are they fitted with easing gear

Least distance between boilers or uptakes and bunkers or woodwork

Mean dia. of boilers

Length

Material of shell plates

Range of tensile strength

Are they welded or flanged

Descrip. of riveting: cir. seams

long. seams

Number of rivet holes in long. seams

Pitch of rivets

Lap of plates or width of butt straps

Stages of strength of longitudinal joint

Working pressure of shell by rules

Size of manhole in shell

Compensating ring

No. and Description of Furnaces in each boiler

Material

Outside diameter

Top of plain part

Thickness of plates

Description of longitudinal joint

No. of strengthening rings

Working pressure of furnace by the rules

Combustion chamber plates: Material

Thickness: Sides

Back

Top

Bottom

Number of stays to ditto: Sides

Back

Top

If stays are fitted with nuts or riveted heads

Working pressure by rules

Diameter of stays

Diameter at smallest part

Area supported by each stay

Working pressure by rules

End plates in steam space

Material

Thickness

Pitch of stays

How are stays secured

Working pressure by rules

Material of stays

Diameter at smallest part

Area supported by each stay

Working pressure by rules

Material of Front plates at bottom

Material

Thickness

Greatest pitch of stays

Working pressure of plate by rules

Mean pitch of stays

Number of tubes

Pitch of tubes

Material of tube plates

Thickness: Front

Back

Mean pitch of stays

Working pressures across wide water spaces

Working pressures by rules

Girders to Chamber tops: Material

Depth and

Number of girders at centre

Length as per rule

Distance apart

Number and pitch of Stays in each

Working pressure by rules

Superheater or Steam chest; how connected to boiler

Can the superheater be shut off and the boiler worked

Material

Diameter

Length

Thickness of shell plates

Material

Description of longitudinal joint

Diam. of rivet

Pitch of rivets

Working pressure of shell by rules

Diameter of flue

Material of flue plates

Thickness

Number of rings

Distance between rings

Working pressure by rules

End plates: Thickness

How stayed

Working pressure of end plates

Area of safety valves to superheater

Are they fitted with easing gear

Particulars see pp 126-130

See pp 126-130

Exp. Rep.



